

図1

Figure 1 consists of three schematic diagrams labeled (a), (b), and (c).
 (a) is a top view of a container assembly. It shows a central container 13 with a lid 9. The container is supported by a base 10, which is further supported by a support structure 11. The support structure 11 is shown in cross-section, revealing a series of small, rounded elements 7. The container 13 is shown in cross-section, revealing a series of small, rounded elements 8. The lid 9 is shown in cross-section, revealing a series of small, rounded elements 10. The support structure 11 is shown in cross-section, revealing a series of small, rounded elements 7. The container 13 is shown in cross-section, revealing a series of small, rounded elements 8. The lid 9 is shown in cross-section, revealing a series of small, rounded elements 10. The support structure 11 is shown in cross-section, revealing a series of small, rounded elements 7.
 (b) is a cross-section A-A' of the container assembly. It shows a container 12 with a lid 13. The container 12 is shown in cross-section, revealing a series of small, rounded elements 12. The lid 13 is shown in cross-section, revealing a series of small, rounded elements 13.
 (c) is a cross-section B-B' of the container assembly. It shows a container 12 with a lid 13 and a support structure 11. The container 12 is shown in cross-section, revealing a series of small, rounded elements 12. The lid 13 is shown in cross-section, revealing a series of small, rounded elements 13. The support structure 11 is shown in cross-section, revealing a series of small, rounded elements 11.

图 2

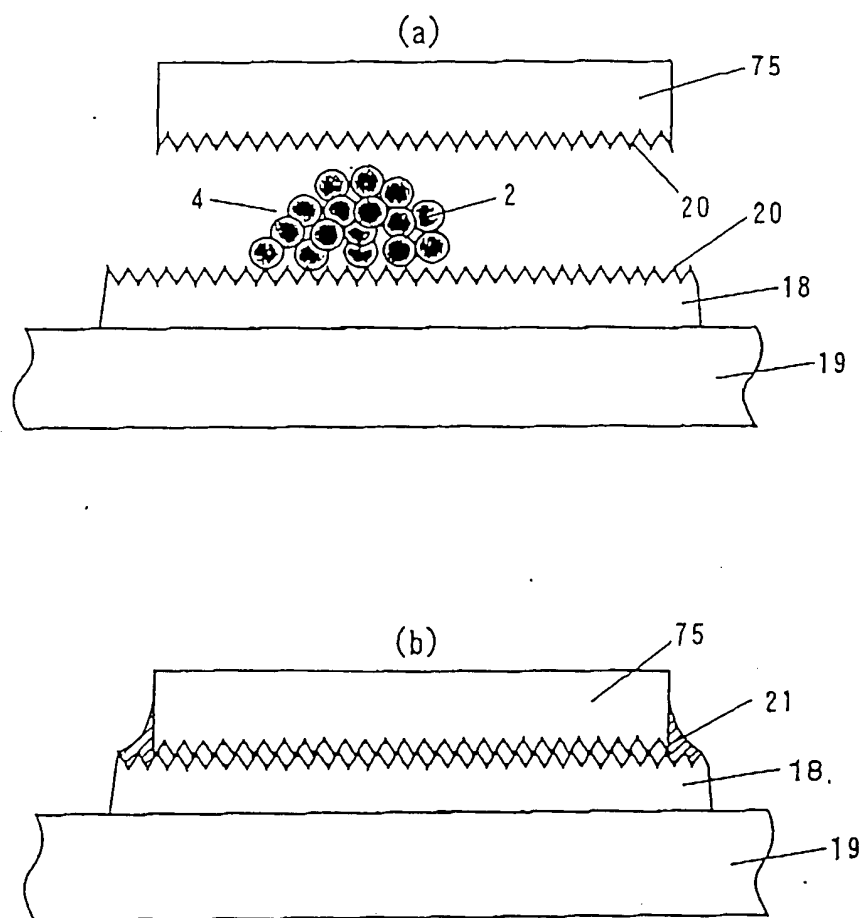
[illegible]

图 3

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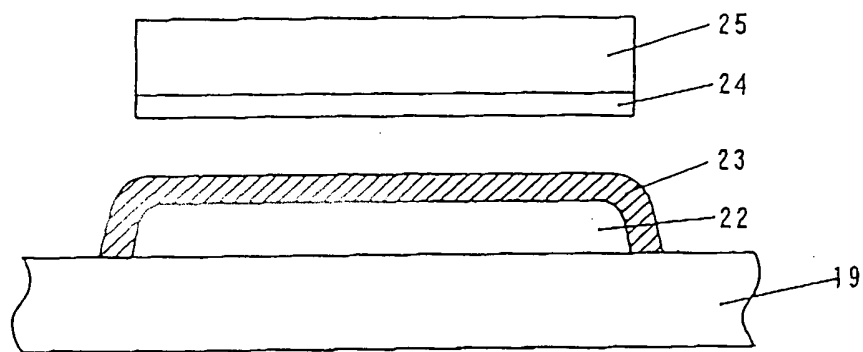
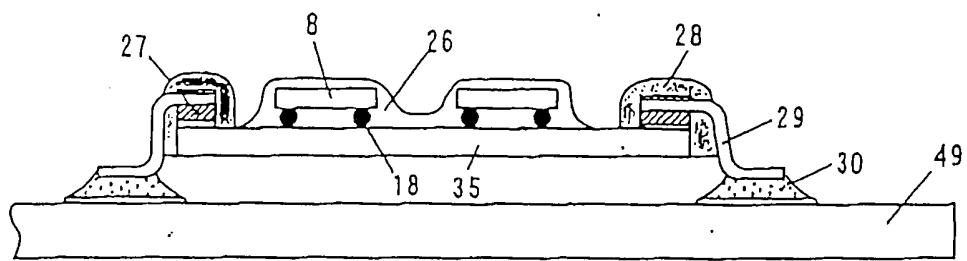
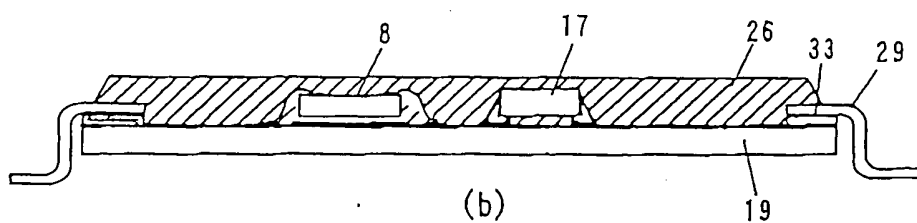


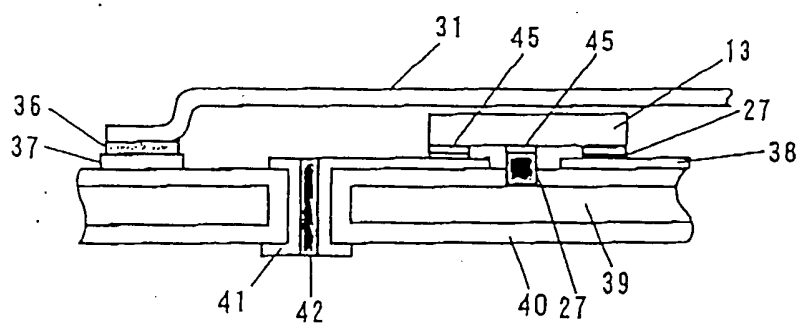
图4



(a)



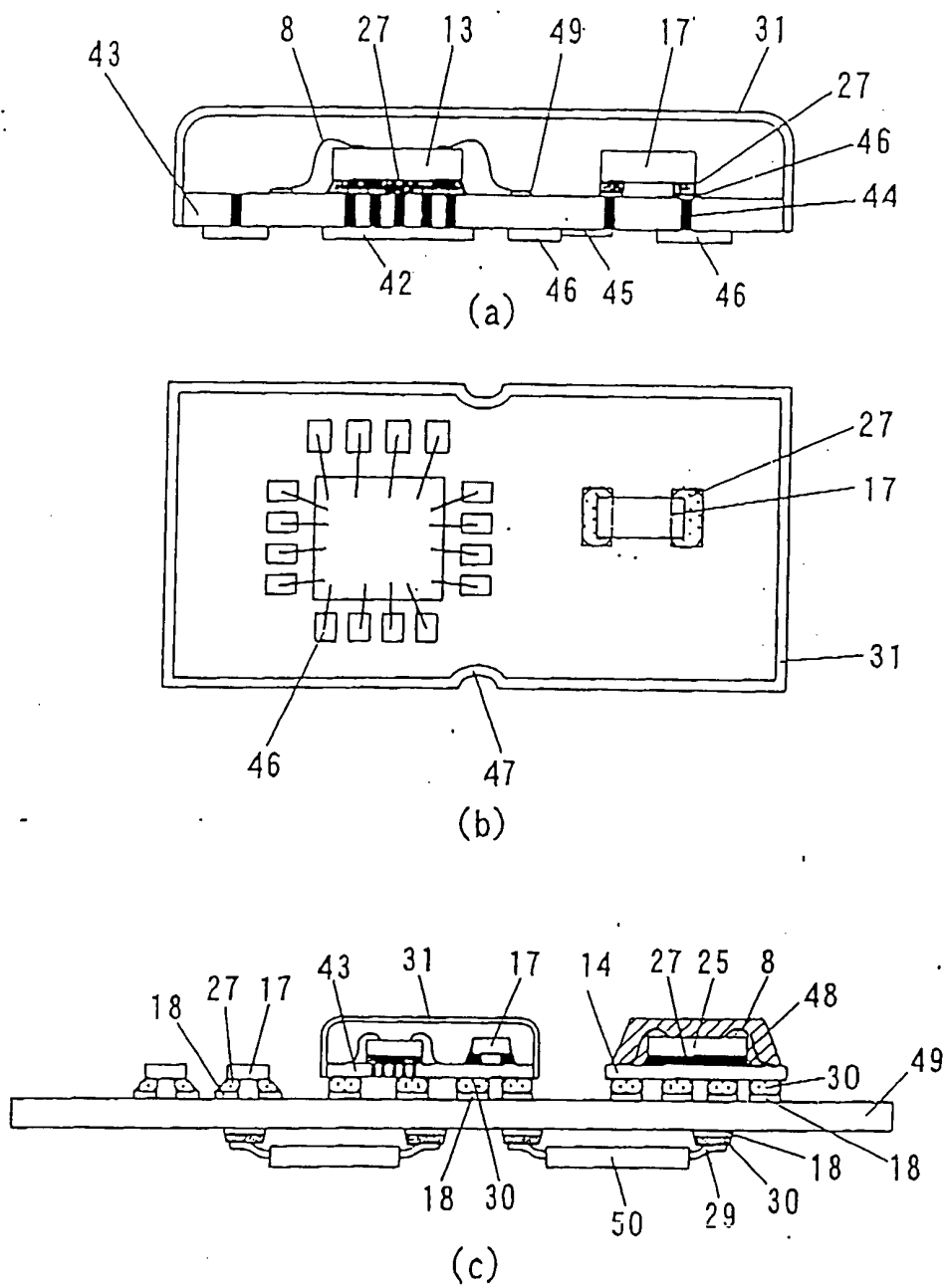
(b)

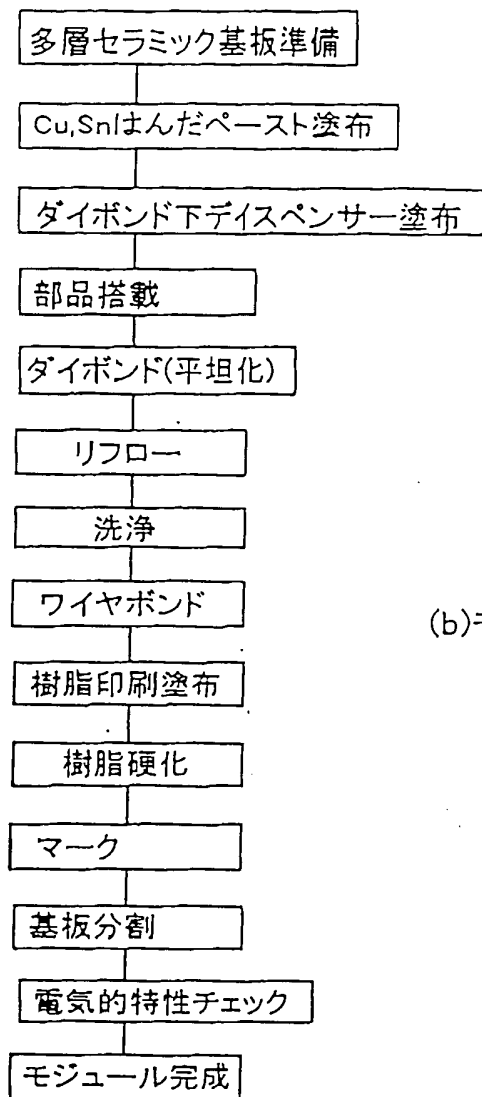


(c)

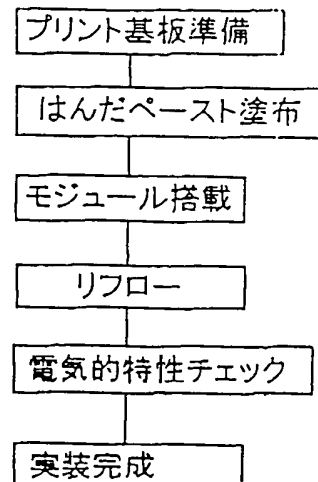
图 6

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(a)モジュール組立工程



(b)モジュール2次実装組立工程

図 8

This cross-sectional view shows a central gate structure 61 flanked by two side gate structures 62. The gate structures are positioned above a channel region 43, which is defined by a pair of horizontal lines. The gate structures 61 and 62 are shown as rectangular blocks with a central layer and side layers. Arrows point from the labels 61 and 62 to their respective structures, and an arrow points from label 43 to the channel region.

[illegible]

A cross-sectional view of a multi-layered structure. The top layer is dark and textured, labeled with the number 26. Below this layer, there are several rectangular blocks arranged in a row. These blocks are separated by curved, arch-like structures. The entire assembly is supported by a series of horizontal lines, suggesting a base or substrate.

a - a' 断面

(d)

图 9

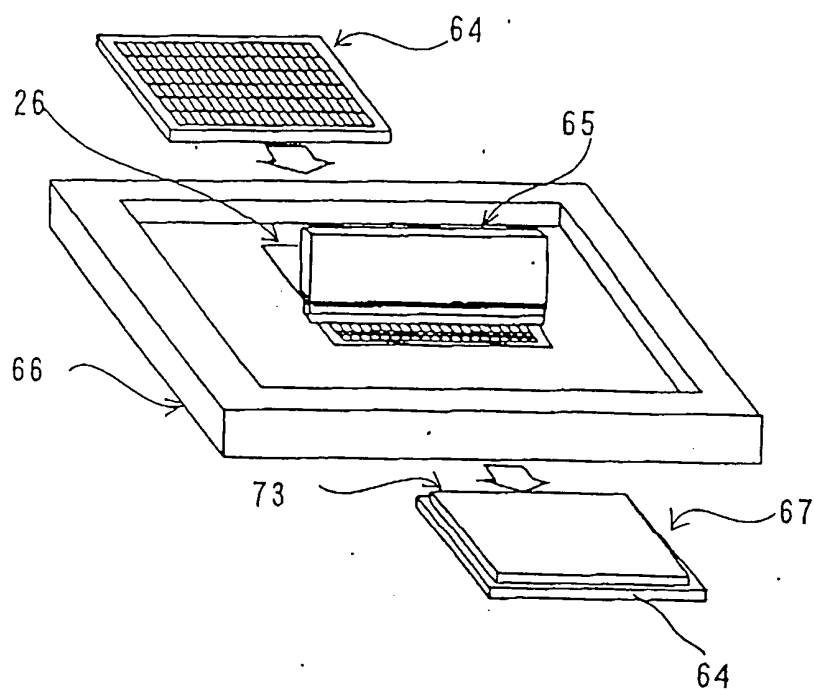


图10

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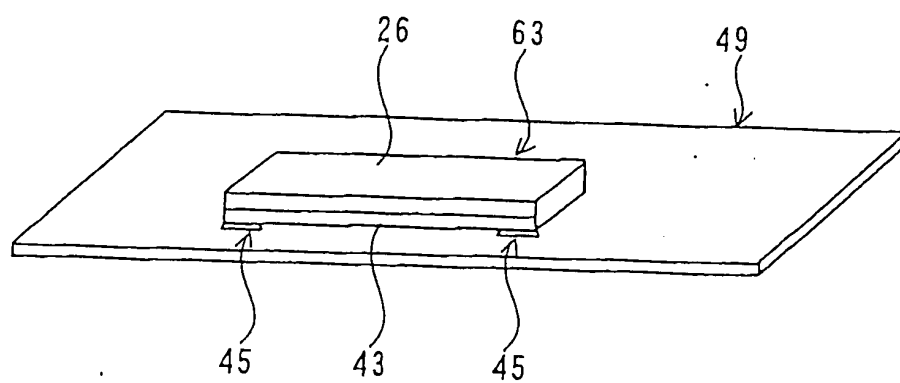
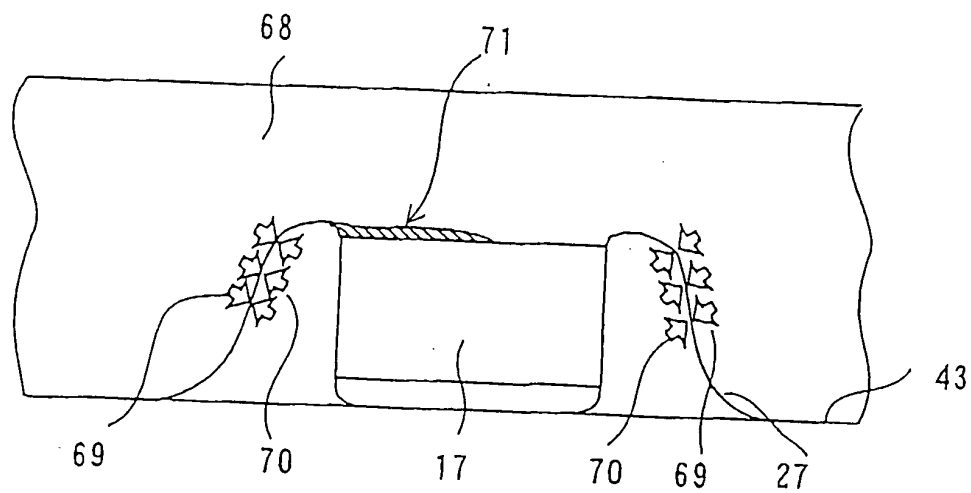
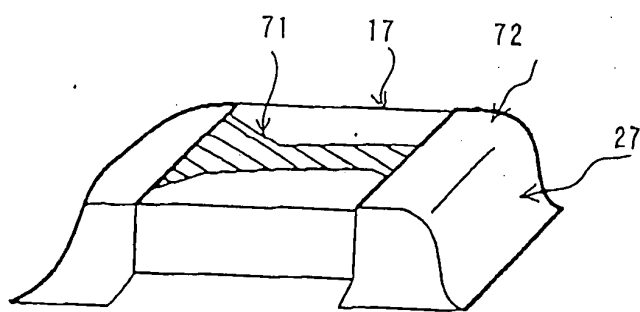


図 11



(a)



(b)

图12

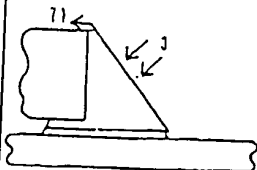
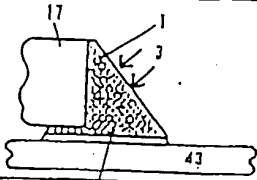

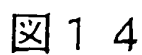
	体積底張(%) (比率)	樹脂に要求される 縦弾性率	現 象	
現用 (Pb系)	3.6 (2.6)	180°Cで 200MPa>	再熔融時に液体 (固相有)の クリープ変形	
本案 (Cu50/Sn50)	1.4※ (1)	180°Cで 500MPa>※	Cu粒子が固定さ れているので、 接合部は動かな いことが予想さ れる	
仮定	※Snの1/2 とした	※単純に現用の 1.5倍した値		

図 1 3



リードフレームと熱拡散板かしめ接合

チップのダイボンド

ワイヤーボンディング

樹脂モールド

ダム切断

はんだめっき

リード切断成形

熱拡散板切断

外形完

図15

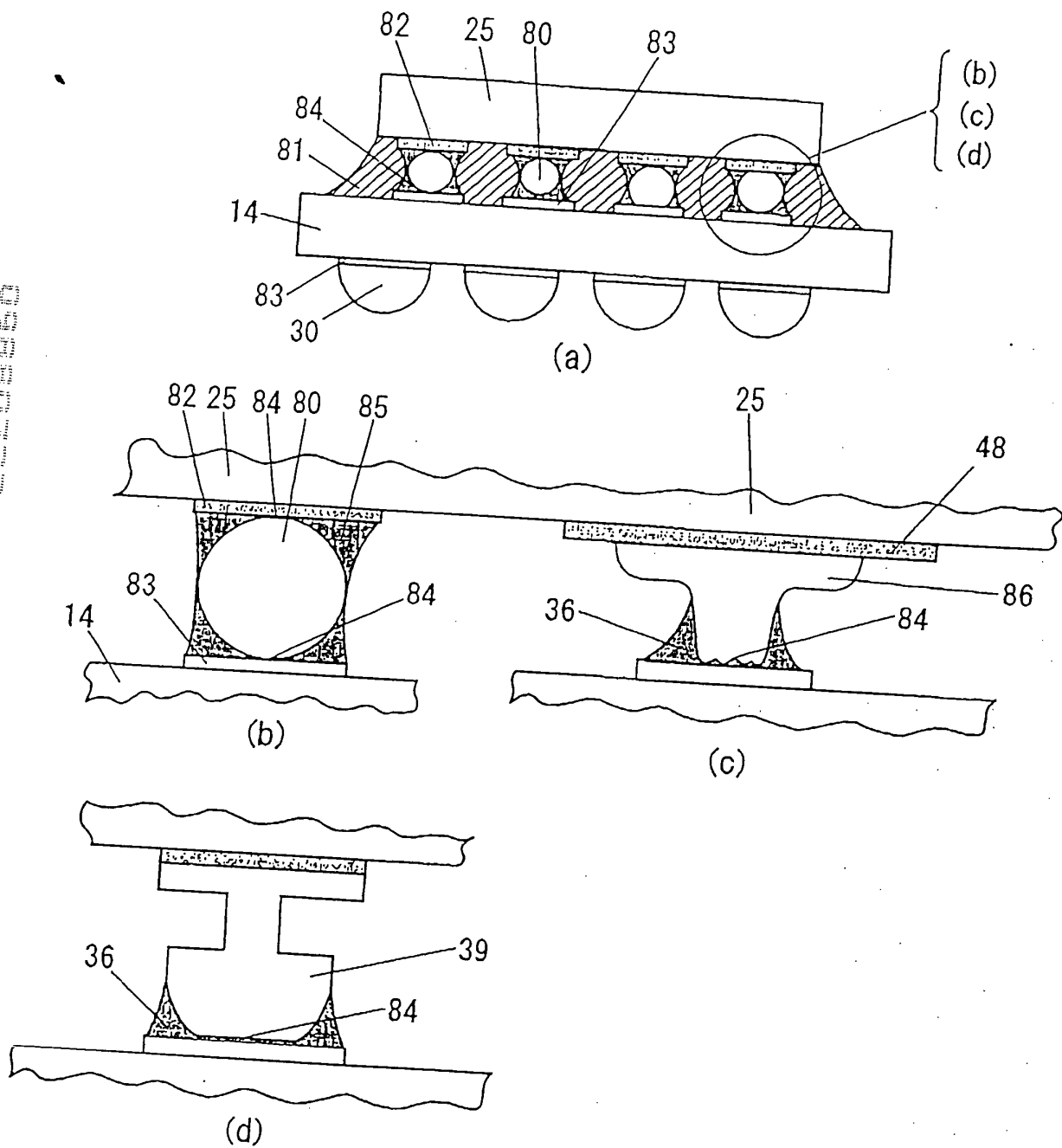


图16

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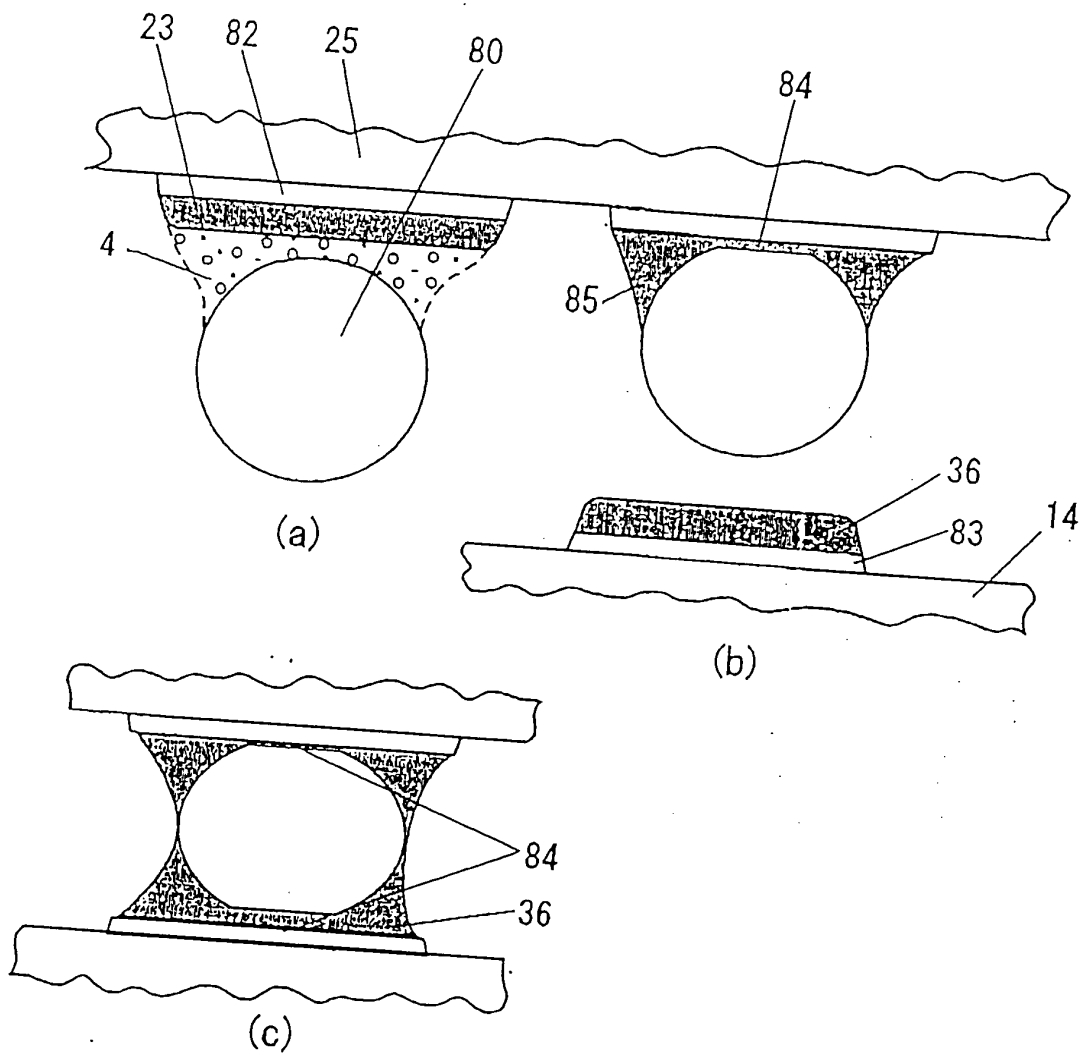
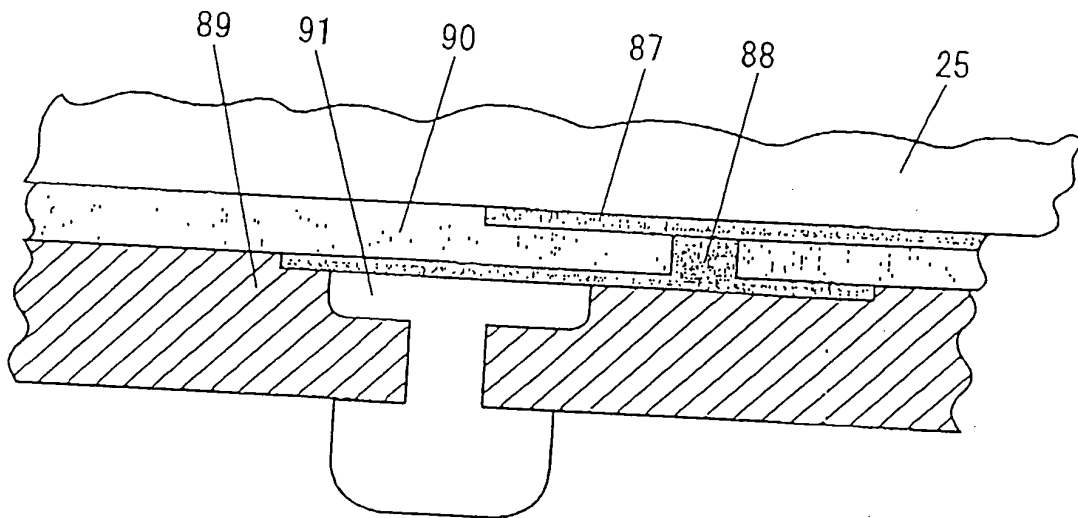
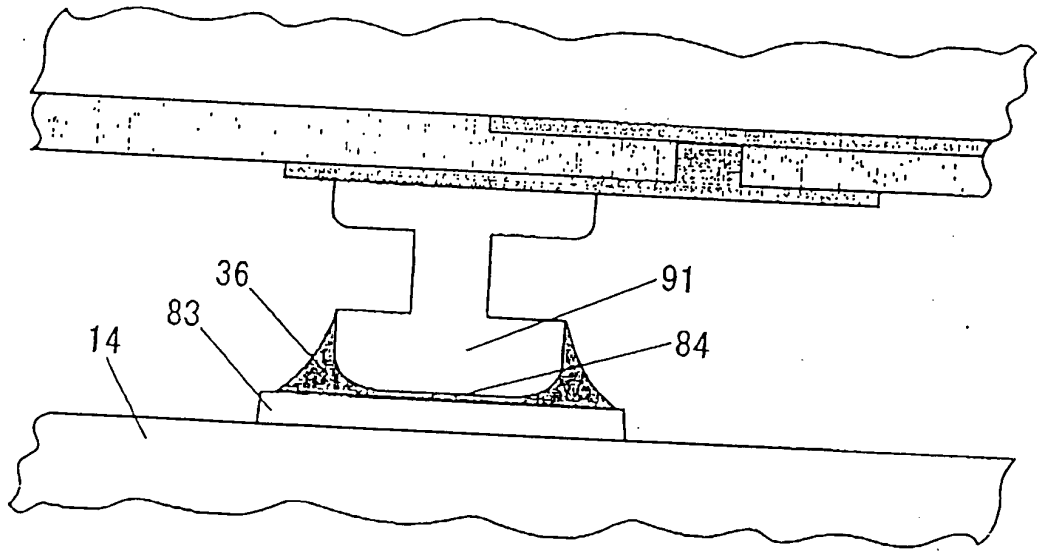


图17



(a)



(b)

03660733 051304

Sn/Cu比率	評価判定	判定理由
10/4	×	↑
10/5	×	Snが多い
10/7(1.43)	△	適正範囲 絞られた範囲
10/8(1.25)	△~○	
10/10	○	
10/12.5(0.8)	○	
10/15	△~○	
10/16.7(0.6)	△	
10/25	×	Sn不足
10/50	×	↓
10/100	×	↓

判定基準：○：適正、△：ほぼ適正
×：Sn不足(過多)

図 1 9